

# INTERNATIONAL SEARCH REPORT

International Application No  
PCT/EP 03/50859

**A. CLASSIFICATION OF SUBJECT MATTER**  
IPC 7 H04M3/54

According to International Patent Classification (IPC) or to both national classification and IPC

**B. FIELDS SEARCHED**

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 H04M

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data

**C. DOCUMENTS CONSIDERED TO BE RELEVANT**

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	EP 1 198 113 A (DANSK MOBILTELEFON I S) 17 April 2002 (2002-04-17) paragraph '0001! - paragraph '0157! figures 1-10 abstract	1-22
X	US 5 848 140 A (SILVERMAN DAVID P ET AL) 8 December 1998 (1998-12-08) column 1, line 31 -column 2, line 20	1
A	US 2002/004385 A1 (YAMAMOTO MASAHIRO ET AL) 10 January 2002 (2002-01-10) paragraph '0004! - paragraph '0094! figures 1-19	1-22
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☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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Date of the actual completion of the international search

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## C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	GB 2 290 675 A (AETHOS COMMUNICATION SYSTEMS L ;ENGINEERING SUPPORT LIMITED SY (GB) 3 January 1996 (1996-01-03) page 1, line 3 -page 7, line 29 -----	1-22
A	US 5 842 112 A (EPLER FREDERICK A ET AL) 24 November 1998 (1998-11-24) column 1, line 26 -column 3, line 50 -----	1-22

# INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/EP 03/50859

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
EP 1198113	A	17-04-2002	EP 1198113 A1	17-04-2002
			AU 9544301 A	22-04-2002
			WO 0232094 A1	18-04-2002
			EP 1325609 A1	09-07-2003
			US 2004018833 A1	29-01-2004
US 5848140	A	08-12-1998	NONE	
US 2002004385	A1	10-01-2002	JP 3359570 B2	24-12-2002
			JP 2000023248 A	21-01-2000
GB 2290675	A	03-01-1996	WO 9535620 A1	28-12-1995
US 5842112	A	24-11-1998	US 5673299 A	30-09-1997
			US 5375161 A	20-12-1994
			US 4893335 A	09-01-1990
			US 5588037 A	24-12-1996
			US 5610970 A	11-03-1997
			US 6021190 A	01-02-2000
			US 6332082 B1	18-12-2001
			US 6104912 A	15-08-2000
			US 5907600 A	25-05-1999
			US 5838779 A	17-11-1998
			US 6067443 A	23-05-2000
			US 5841837 A	24-11-1998
			US 6122484 A	19-09-2000
			US 6026153 A	15-02-2000
			US 5694453 A	02-12-1997
			US 5751760 A	12-05-1998
			US 6545589 B1	08-04-2003
			US 6167128 A	26-12-2000
			US 6026149 A	15-02-2000
			US 6185283 B1	06-02-2001
			AT 212166 T	15-02-2002
			AU 695947 B2	27-08-1998
			AU 1354995 A	04-05-1995
			AU 654943 B2	01-12-1994
			AU 6900891 A	13-06-1991
			CA 2069003 A1	22-05-1991
			DE 69033901 D1	21-02-2002
			EP 0502104 A1	09-09-1992
			JP 5505285 T	05-08-1993
			SG 38930 A1	18-03-2003
			US 6453164 B1	17-09-2002
			WO 9107838 A1	30-05-1991
			US 5825867 A	20-10-1998
			US 6201950 B1	13-03-2001
			US 5752191 A	12-05-1998
			US 5924016 A	13-07-1999